ASYMTEK Select Cure UV-9 Cure Oven

Ultraviolet Light Curing for Conformal Coating Applications

The Select Cure® UV-9 inline oven is ideal for top and bottom ultraviolet light curing in mid- to high-volume production.

Arc lamp technology, with adjustable UV intensity, is at the core of the UV-9 cure system. An oversized lamp spans the oven's entire width, producing a uniform intensity profile across the part. This technology is combined with a unique ventilation design that dissipates heat, keeping the temperature and rate of rise at acceptable levels. This allows the lamp to run cooler and last longer for maximum throughput.

Optional closed-loop power monitoring ensures process reliability and compensates for lamp degradation by measuring and adjusting UVA power levels to maintain the desired profile within +/-5% of the programmed specifications.

A standard 5 mm-pin SMEMA-compatible chain conveyor, configured for left-to-right or right-to-left flow with electrical width adjustment, is easily integrated with any ASYMTEK conformal coating system.

Features and Benefits

- **Three lamp modules are available: 420 mm (120W/cm), 220 mm (140W/cm), and 220 mm High Power (200W/cm).**

- **Adjustable power levels.**

- **Will not interfere with wireless networks**.

- **Top and bottom ultraviolet light curing of materials up to 420 mm (16.5 in.).**

- **Optional closed-loop power monitoring of lamp power to ensure consistent curing.**

- **Software tracking of lamp life.**

- **Low maintenance and easy to operate.**

Nordson
ELECTRONICS SOLUTIONS

Select Cure UV-9 Cure Oven

Specifications

<table>
<tr><td>Arc Lamp
505 mm</td><td colspan="3">Focal length: 100 mm (3.94 in.) standard
Length (board width): Optimized for 420 mm (16.5 in.)
Power: 100 W/cm (254 W/inch)
Lamp options:
•   Standard = Mercury-doped lamp (optimized for UVC)
•   Mercury-Iron (rich in UVA)
•   Mercury-Gallium (broadband output along all wavelengths)
•   Others available upon request</td></tr>
<tr><td>Dimensions</td><td colspan="3">1400 x 1200 x 1526 mm
(55.12 x 47.24 x 60.1 in.)
2086 mm (82.13 in.) including beacon</td></tr>
<tr><td>Noise Level</td><td colspan="3">68 dB @ 1 m</td></tr>
<tr><td rowspan="4">Light Tower

3-light configuration with buzzer</td><td colspan="3">Red solid: Alarm</td></tr>
<tr><td colspan="3">Orange solid: The oven is not ready (starting up, cooling down, downstream SMEMA is not ready, etc.)</td></tr>
<tr><td colspan="3">Green flashing: The lamp is in standby mode, but depending on the upstream SMEMA status, the oven is ready for production.</td></tr>
<tr><td colspan="3">Green solid: Run</td></tr>
<tr><td rowspan="7">Conveyor

5 mm-pin chain conveyor</td><td>Component clearance</td><td colspan="2">100 mm top and bottom</td></tr>
<tr><td>Conveyor height</td><td colspan="2">920 to 1000 mm (36.22 to 39.37 in.)</td></tr>
<tr><td>Conveyor speed</td><td colspan="2">300 to 1500 mm/min (1-4.92 ft/min)</td></tr>
<tr><td>Conveyor width</td><td colspan="2">50 to 420 mm (1.97 to 16.54 in.)</td></tr>
<tr><td>Conveyor length</td><td colspan="2">1400 mm (55.12 in.)</td></tr>
<tr><td>Maximum load</td><td colspan="2">4Kg/m (2.69 lbs/ft) evenly distributed</td></tr>
<tr><td>Exhaust/
Ventilation</td><td colspan="3">10.83 m3/min @ 40 mm WC, 250 mm exhaust duct</td></tr>
<tr><td></td><td colspan="3">(382.5 SCFM @ 1.57 in. WC, 10 in. exhaust duct)</td></tr>
<tr><td rowspan="8">Facilities Requirements</td><td></td><td>Single-Sided</td><td>Double-Sided</td></tr>
<tr><td>Voltage</td><td>400/480 VAC</td><td>400/480 VAC</td></tr>
<tr><td>Phases</td><td>3</td><td>3</td></tr>
<tr><td>Mode</td><td>N+EARTH, TT or TN</td><td>N+EARTH, TT or TN</td></tr>
<tr><td>Power rating</td><td>6.5 KW</td><td>12.5 KW</td></tr>
<tr><td>Weight</td><td>430 kg</td><td>580 kg</td></tr>
<tr><td colspan="3">Power: 400/480 VAC 3 phases</td></tr>
<tr><td colspan="3">Air supply for shutters: 6.0 bars (87 psi) max.</td></tr>
</table>

Select Cure UV-9 Cure Oven

Specifications

Standard Features	Integrated operator interface on coating system	
	Software-controlled conveyor width adjustment	
	Light beacon	
	Exhaust control	
	Door and safety interlocks	
	E-stop	
	SMEMA compatible conveyor	
Options	Close-loop UVA lamp regulation	
	Traffic control	
	Board counter	
	Board jam detection (entry and exit)	
	Automatic width adjust for conveyors	
	Right-to-left conveyor direction	
	Heavy-duty conveyor:	8 kg/m (5.38 lbs/ft) evenly distributed Reduces maximum conveyor width to 400 mm (1.3 ft)
	Traceability software	
	Entrance conveyor covered extension	
	Exit conveyor covered extension	
	Recipes and data log storage	
	Touch screen for oven monitoring and control	
	Special paint	
	Dual-lane conveyor	
	Iron-doped lamp	
	Gallium-doped lamp	
	Power packs for different power configurations	
	Inlet and outlet shutters (air supply required)	220 mm lamp (140W/cm) 220 mm lamp (200W/cm)

Select Cure UV-9 Cure Oven

System Details

Select Cure UV-9 Software

For more information, visit our website to find your local regional office or representative.

We have several global locations to serve you.

North America
Asia Pacific
EMEA

www.nordson.com/electronics
info-electronics@nordson.com

Select Cure UV-9 In-line with the ASYMTEK Select Coat SL-940 Conformal Coating System